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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/819,398	03/28/2001	Gregory Agami	CE08871R	3808
22917	7590	08/02/2004	EXAMINER	
MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD IL01/3RD SCHAUMBURG, IL 60196			HA, DAC V	
			ART UNIT	PAPER NUMBER
			2634	

DATE MAILED: 08/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/819,398

Applicant(s)

AGAMI ET AL.

Examiner

Dac V. Ha

Art Unit

2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 28 March 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-10 and 12-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1,4 and 6-10 is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☒ Claim(s) 2,3,5 and 12-26 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- 1) ☐ Certified copies of the priority documents have been received.
  - 2) ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 03/28/01.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

**Claims 2, 3, 5, 12-26** are objected to because of the following informalities:

**Claim 2:**

Line 3, "is and is" should be changed to "is".

Line 4, "recovery circuit" should be changed to "recovery loop".

**Claim 3:**

Line 1, "the quantity" should be changed to "a quantity".

Line 2, "the quantity" should be changed to "a quantity".

**Claim 5:**

Line 2, "the input filter" should be changed to "the half-band interpolation filter".

**Claims 12-26** should be renumbered as 11-25, respectively.

**Claim 13:**

Line 1, "claim 12" should be changed to "claim 11".

**Claim 16:**

Line 1, "claim 15" should be changed to "claim 14".

**Claim 17:**

Line 1, "claim 15" should be changed to "claim 14".

Line 1, "the step of filtering the received signal" should be changed to "the step of interpolating the received signal".

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**Claim 18:**

Line 1, "claim 15" should be changed to "claim 14".

Line 2, "the plurality of interpolated signals" should be changed to "the plurality of interpolated and sampled signals".

**Claim 19:**

Line 1, "claim 15" should be changed to "claim 14".

Line 2, "the plurality of interpolated signals" should be changed to "the plurality of interpolated and sampled signals".

**Claim 20:**

Line 1, "claim 19" should be changed to "claim 18".

Line 2, "based on the based on" should be changed to "based on".

**Claim 21:**

Line 1, "claim 15" should be changed to "claim 14".

**Claim 22:**

Line 1, "claim 21" should be changed to "claim 20".

Line 2, "the plurality of interpolated signals" should be changed to "the plurality of interpolated and sampled signals".

Line 3, "the at least one" should be changed to "a value of the at least one".

**Claim 24:**

Line 1, "claim 23" should be changed to "claim 22".

**Claim 25:**

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Line 1, "claim 23" should be changed to "claim 22".

**Claim 26:**

Line 1, "claim 23" should be changed to "claim 22".

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Panicker et al. (US 6,744,835) disclose Methods And Apparatus For Implementing An Interpolation Finite Impulse Response (FIR) Filter For Use In Timing Recovery.

Claydon et al. (US 5,724,396) disclose Signal Processing System.

Wright et al. (US 5,309,482) disclose Receiver Having Adjustable Matched Filter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 703-306-5536.

The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read "Dac V. Ha", with a long horizontal line extending to the right.

Dac V. Ha  
Examiner  
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